$$\mathcal{E}_{3} \xrightarrow{\mathcal{E}_{2}} \rho \vdash_{\Delta} \langle \mathbf{x}, \sigma \rangle \longrightarrow_{e} \langle \mathbf{3}, \sigma \rangle \xrightarrow{\rho(\mathbf{x}) = \ell_{x}} \rho(\mathbf{x}) = \ell_{x}$$

$$\frac{\rho \vdash_{\Delta} \langle \mathbf{x} := \mathbf{x} * \mathbf{y}, \sigma \rangle \longrightarrow_{e} \langle \mathbf{3} * \mathbf{y}, \sigma \rangle}{\rho \vdash_{\Delta} \langle \mathbf{x} := \mathbf{3} * \mathbf{y}, \sigma \rangle} \xrightarrow{\rho(\mathbf{y}) = 2} \rho(\mathbf{y}) = 2$$

$$\frac{\rho \vdash_{\Delta} \langle \mathbf{x} := \mathbf{x} * \mathbf{y}, \sigma \rangle \longrightarrow_{e} \langle \mathbf{3} * \mathbf{y}, \sigma \rangle}{\rho \vdash_{\Delta} \langle \mathbf{x} := \mathbf{3} * \mathbf{y}, \sigma \rangle} \xrightarrow{\rho(\mathbf{y}) = 2} \rho(\mathbf{y}) = 2$$

$$\frac{\rho \vdash_{\Delta} \langle \mathbf{x} := \mathbf{x} * \mathbf{y}, \sigma \rangle \longrightarrow_{e} \langle \mathbf{x} := \mathbf{3} * \mathbf{y}, \sigma \rangle}{\rho \vdash_{\Delta} \langle \mathbf{x} := \mathbf{3} * \mathbf{y}, \sigma \rangle} \xrightarrow{\rho(\mathbf{y}) = 2} \rho(\mathbf{y}) = 2$$