Consequence :

$$\frac{\models \varphi_1 \rightarrow \varphi_1' \qquad \mathcal{S}, \mathcal{A} \vdash_C \varphi_1' \Rightarrow^Q \varphi_2' \qquad \models \varphi_2' \rightarrow \varphi_2}{\mathcal{S}, \mathcal{A} \vdash_C \varphi_1 \Rightarrow^Q \varphi_2}$$

Case Analysis :

$$\frac{\mathcal{S}, \mathcal{A} \vdash_C \varphi_1 \Rightarrow^Q \varphi \qquad \mathcal{S}, \mathcal{A} \vdash_C \varphi_2 \Rightarrow^Q \varphi}{\mathcal{S}, \mathcal{A} \vdash_C \varphi_1 \vee \varphi_2 \Rightarrow^Q \varphi}$$

Abstraction :

$$\frac{\mathcal{S}, \mathcal{A} \vdash_C \varphi \Rightarrow^Q \varphi' \qquad X \cap \mathit{FreeVars}(\varphi') = \emptyset}{\mathcal{S}, \mathcal{A} \vdash_C \exists \mathsf{X}\, \varphi \Rightarrow^Q \varphi'}$$

Circularity :

$$\frac{\mathcal{S}, \mathcal{A} \vdash_{C \cup \{\varphi \Rightarrow^Q \varphi'\}} \varphi \Rightarrow^Q \varphi'}{\mathcal{S}, \mathcal{A} \vdash_C \varphi \Rightarrow^Q \varphi'}$$