$$F(X) \xrightarrow{F(f)} F(Y) \xrightarrow{F(g)} F(Z)$$

$$\alpha_X \downarrow \qquad \qquad \downarrow \alpha_Y \qquad \qquad \downarrow \alpha_Z$$

$$G(X) \xrightarrow{G(f)} G(Y) \xrightarrow{G(g)} G(Z)$$