$$\begin{array}{ccccccc}
A_1 & \xrightarrow{\ f_A\ } & A_2 & \xrightarrow{\ g_A\ } & A_3 & \xrightarrow{\ \delta_{r1}\ } & \\
\Big\| & & \Big\downarrow{\scriptstyle m_2} & & \Big\downarrow{\scriptstyle x} & & \\
A_1 & \xrightarrow{\ m_2 f_A\ } & B_2 & \xrightarrow{\ y\ } & E & \xrightarrow{\ \eta\ } & \\
& & \Big\downarrow{\scriptstyle n_2} & & \Big\downarrow{\scriptstyle z} & & \\
& & C_2 & = & C_2 & & \\
& & \Big\downarrow{\scriptstyle \delta_{c2}} & & \Big\downarrow{\scriptstyle \varepsilon} & &
\end{array}$$